

UP	DOWN	SIGN	ACTIVE	Ic
X	X	1	1	-I <sub>1</sub>
X	X	0	1	+I <sub>1</sub>
1	0	X	0	+I <sub>1</sub>
0	1	X	0	-I <sub>1</sub>

FIG. 1B

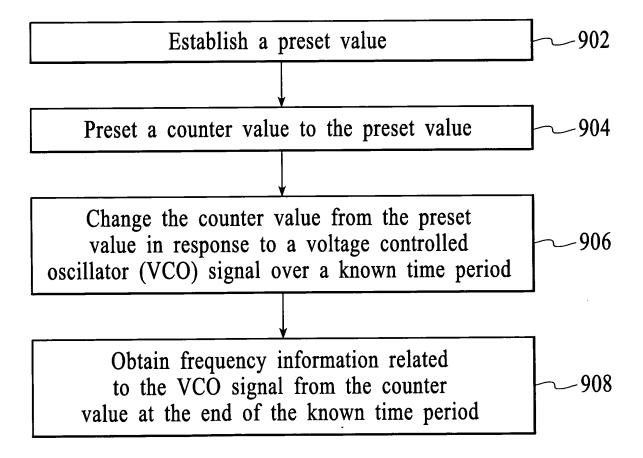
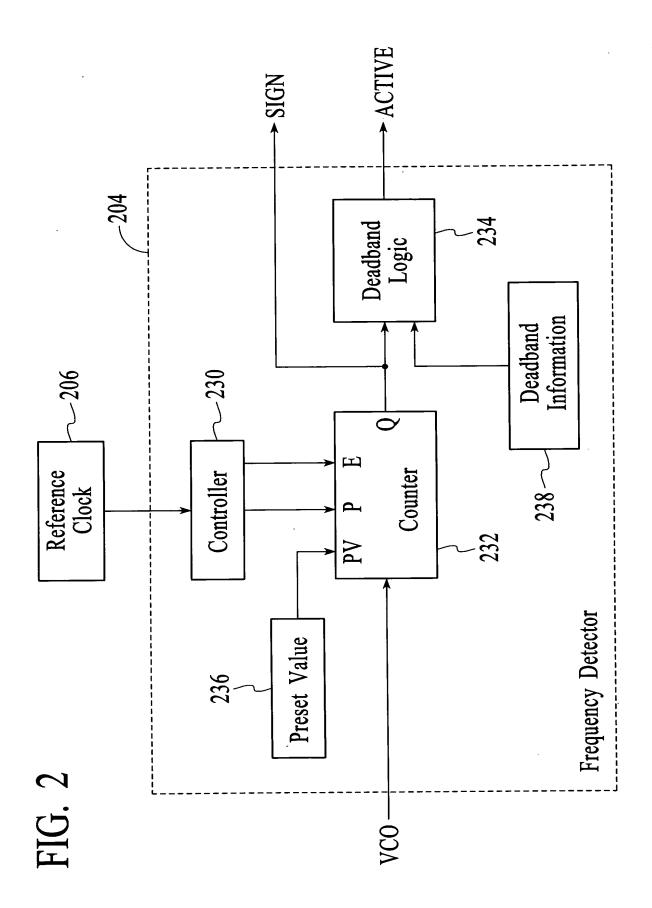
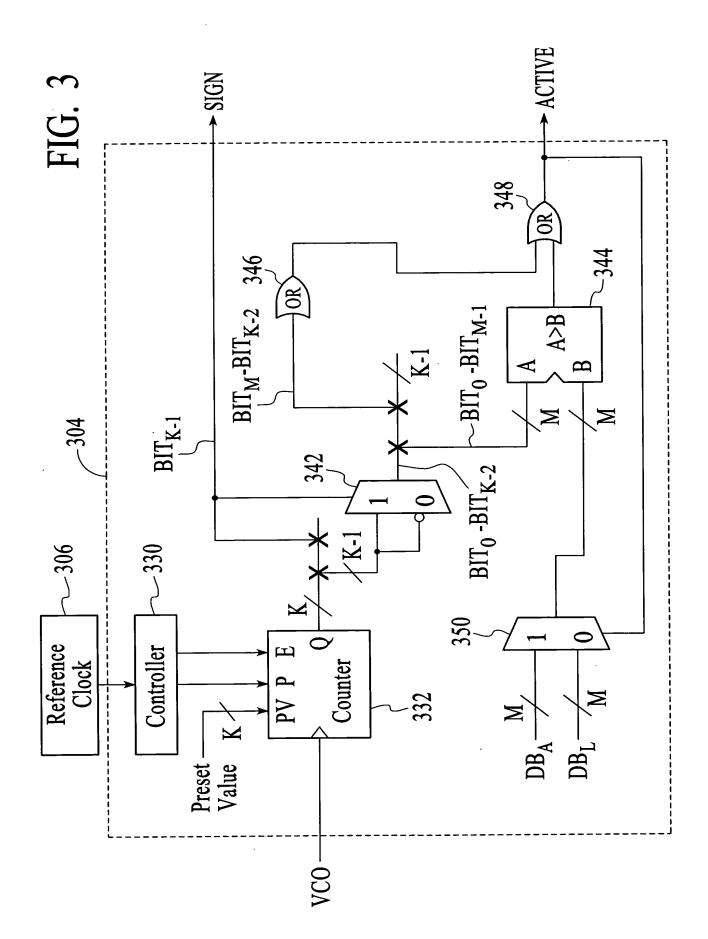
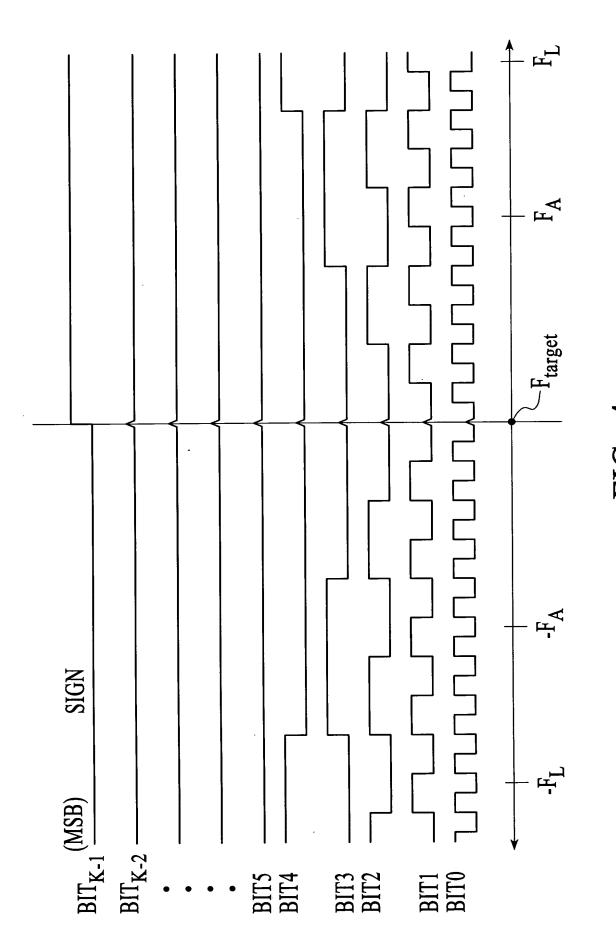


FIG. 9







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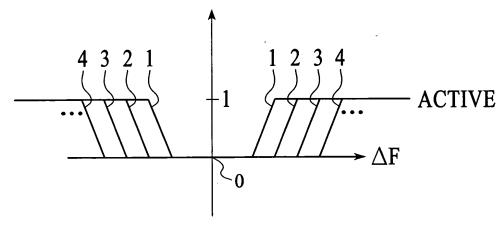
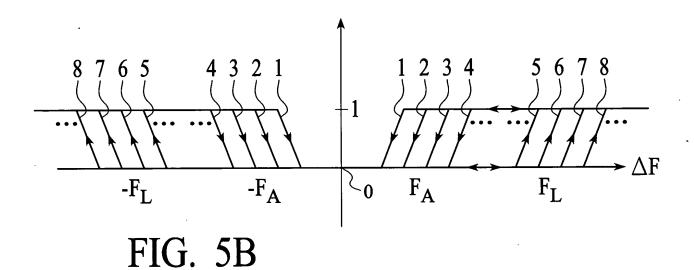


FIG. 5A



1070 1070 1070 1070 1070 Enable Q D D Q D D Q Retimed Enable Signal VCO/N

FIG. 10

